
LD 43: Equipment Datadump

This program is used to keep data on the system storage device up to date. When the datadump program is invoked, data in the read/write memory (including any that has been changed or added) is written to the storage device at the location reserved for it.

Option 11 systems maintain two copies of customer data. The Primary copy on the Flash ROM software cartridge that is mounted on the CPU/Conf card and the Secondary copy on the core system CPU/Conf card Flash ROM. The datadumping commands for Option 11 systems allow data to be stored in a non-volatile media for backup and upgrade purposes. Off-site storage of customer data is addressed on the Option 11 by the NTAK80 backup cartridge or by Remote Backup onto a PC.

The program can be invoked daily as part of the daily routines or loaded manually. An incremental datadump occurs during the daily routines if database changes have been made.

Options 51C, 61C, 81 and 81C utilize two CMDUs and disk redundancy, LD 43 commands apply to both sides of the system. Refer to the specific commands for the differences between Options 51C, 61C, 81 or 81C and other systems. Refer to System installation (553-3001-210) for general information.

Following a successful EDD on Options 51C, 61C, 81 and 81C, the "HI" (Hardware Infrastructure) string is output.

When the datadump fails

In the event of an unsuccessful initial dump, the office data on the tape or disk is suspect. Another datadump with spool option should be done on the same tape or disk; if successful, a transient error is indicated and normal procedures can be resumed. If this second attempt also fails, DO NOT attempt another datadump until the fault is isolated and corrected.

If the storage medium is not proved faulty and the storage device appears serviceable, datadumping to an OLD tape or disk, if available, may help to pinpoint the problem.

Except during the troubleshooting phase, storage medium which has failed to datadump successfully must not be left in the storage device. Should a SYSLOAD occur with such a storage medium, the load may terminate abnormally with unpredictable results.

Low memory warning

Unprotected data store equal in size to the length of the records being written (i.e., 512 words) must be available to the datadump program.

A low memory warning message (SCH603) is issued when spare unprotected data store falls below a given threshold. Once this warning message has been issued, it is not possible to perform a datadump as the system requires spare unprotected data store equivalent to the size of a record on the storage medium (i.e., 512 words).

Users should ensure that these amounts of spare unprotected data store are available before attempting to perform a datadump.

Option 11 ROM selection for SYSLOAD

The following table shows where the system will load from with the software cartridge Flash ROM and CPU/Conf card Flash ROM in their different states.

CPU/Conf Card Flash ROM State	Software Cartridge Flash ROM State			
	PREP	EDD	UPG	UPS
PREP	Cartridge	Cartridge	Cartridge	Cartridge
EDD	Cartridge	Cartridge	Cartridge	CPU/Conf
UPG	CPU/Conf	Cartridge	Cartridge	CPU/Conf

The state of both the CPU/CONF card Flash ROM and the Software Cartridge Flash ROM determine where the data is loaded from during SYSLOAD.

The following message occurs on SYSLOAD:

DATA FROM XXXXX YYY/ZZZ

Where:

Code	Represents	Description
XXXXX	SCORE	Data is loaded from the CPU/Conf Flash ROM during SYSLOAD
	CART	Data is loaded from the software cartridge Flash ROM during SYSLOAD
YYY	CPU/CONF card state	(PREP, EDD or UPG)
ZZZ	S/W cartridge state	(PREP, EDD, UPS or UPG)

Note: Software cartridges are sent from the factory in the PREP state.

Basic commands

The following commands are applicable to all machines, except Option 11 systems. See the list of Option 11 system commands for further information.

BKO	Copy data from primary to backup device
DAT	Print the data issue and creation date of the primary and backup database
EDD	Invoke datadump program
EDD CLR	Clear datadump inhibit flag
EDD CN	Save CND names (use prior to datadump)
EDD DP xx xx ..xx	Dump patch
EDD GP	Get patch
EDD HM	Save AWU, RMS and MR data (prior to dump)
EDD IWC	Inhibits write check: caution
EDD NBK	Inhibit database backup
EDD NS	Inhibit tape far-end spool
EDD NX	Write tape data records
EDD SA	Complete data dump and bypass software audit
EDD SP	Spool tape to far-end
PBX CF6 (ALLOWED)	Bit dumped with PBX data block
RES	Copy entire contents of backup to primary device
SWP	Swap (exchange) main and ".bak" data files on the primary flash drive

Option 11/11E commands

Please note that the Option 11E displays a percentage symbol (%) on the TTY (approximately one symbol every two seconds) to signify that a command listed below is being executed. To avoid data corruption, do not attempt to exit the Overlay or enter another command until the last command entered has been fully executed.

Additional information on upgrade procedures is contained in the Option 11 Administration Guide.

BKO	Copy data from primary to backup device
DAT	Print the data issue and creation date of the primary and backup database
EDD	Invoke datadump program
EDD CLR	Clear datadump inhibit flag
EDD DP xx xx.... xx	Customer data and the specified patches (xx xx....xx) are dumped onto disk
EDD DR1	Clears pre-programmed data from a software cartridge in PREP state
EDD GP	Get patches
EDD HM	Save AWU, RMS and MR data (prior to dump)
EDD NBK	Dumps data only to the Flash ROM on the software cartridge, and marks it as an "EDD" copy
EDD SDI	Dump data in ASCII format out the active SDI port
RES	Restore files to the primary device from the external backup device
SWP	Swap (exchange) main and ".bak" data files on the primary flash drive
UPG	Upgrade
UPS	Force the system to load the customer data from the Flash ROM on the CPU/Conf card

Option 11C commands

BKO	Copy data from primary to backup device
DAT	Print the data issue and creation date of the primary and backup database.
EDD	Invoke data dump and write entered data to the primary and internal backup drives
EDD CLR	Clear datadump inhibit flag
EDD HM	Save AWU, RMS and MR data (prior to dump)
EDD IWC	Inhibits write check (for emergency use only)
EDD NBK	Invoke data dump and write entered data to the primary and internal backup drives
RES	Restore files to the primary device from the external backup device
RIB	Restore backup files from the internal backup device into the primary device
SWP	Swap (exchange) main and ".bak" data files on the primary flash drive

Alphabetical list of commands

Command	Description	Pack/Rel
BKO	Copy data base from primary device (Winchester disk) to backup device (floppy disk). BKO is applicable to systems with hard disk storage, including Option 11 and Option 11C.	basic-19
DAT	Print the creation date of the main, secondary, or backup database. The DAT command may be used for both Option 11 and Option 11C systems.	basic-18
EDD	Invoke datadump program non-Option 11 Systems, Option 11, and Option 11C. For system Option 81, EDD creates backups to floppy disks for both CMDUs if redundancy is in effect and both CDMUs contain floppy disks. For system Option 61C, EDD creates backups to floppy disks for the active CDMU. This command dumps data to the Flash ROMs on both the CPU/Conf card and the software cartridge., and marks each as an "EDD" copy.	basic-1
EDD CLR	Clear datadump inhibit flag This flag is set because SYSLOAD or the conversion programs detect incomplete or inconsistent equipment data. Exercise caution since the use of this option may result in incorrect data being written. The EDD CLR command may be used for both Option 11 and Option 11C systems.	basic-1
EDD CN	Save CND names. EDD CN saves the names associated with DNs for Caller's Name Display. Use Prior to datadump.	basic-1
EDD DP xx xx xx...	Dump patch Customer data and the specified patches (xx xx...xx) are dumped onto disk. If no patch numbers are specified, then only customer data is dumped. The EDD DP command may be used for Option 11, but it is not supported for Option 11C systems.	basic-18

LD 43

EDD DR1	Clears pre-programmed data Any service change which would cause LD 43 to be run under midnight routines will also block an EDD DR1 command, even if the cartridge is in the PREP state. If this occurs the EDD DR1 may still be done by reloading the software cartridge and then performing the EDDpDR1. The EDD DR1 command may be used for Option 11, but it is not supported for Option 11C systems.	basic-18
EDD GP	Get patches The non-patch customer data from the core memory is placed on the new disk without overwriting the preloaded patches on the disk. Any patches in the system are also ignored. The EDD GP command may be used for Option 11, but it is not supported for Option 11C systems.	ph-6
EDD HM	Saves Automatic Wake Up (AWU), Room Status (RMS) and Message Registration (MR) data. Use prior to datadump, then system load. This should be performed prior to a SYSLOAD or software conversion. The EDD HM command may be used for both Option 11 and Option 11C systems.	basic-1
EDD IWC	Inhibits write check. Caution: for Emergency Use Only. Inhibits write check. This command is useful when the standard commands for datadump fail and end-of-file cannot be found. It writes an end-of-file on tape and allows other commands to be invoked. The EDD IWC command may be used for both Option 11 and Option 11C systems.	basic-1
EDD NBK	Inhibit database backup. Indicates that a database backup should not be done after a datadump. (Applicable to hard disk storage with floppy disk backup). (For non-Option 11 systems) For Option 11 sytems, this command dumps data only to the Flash ROM on the software cartridge, and marks it as "EDD" copy. For Option 11C systems, this command invokes a data dump and writes entered data to primary and internal backup drives.	basic-1

EDD NS	Inhibit tape far-end spool. Tape will not spool to the far-end and will not perform write test. Default option is SP. Overlay program cannot be aborted until writing has either been completed or has failed. This command applies to systems equipped with tape units.	basic-1
EDD NX	Writes tape data records consistent in size with predefined system values. Default option is NX.	basic-1
EDD SA	This command is used to complete the data dump and bypass the software audit of Peripheral Controller and superloop data.	basic-18
EDD SDI	Datadump to active SDI port. For information on backing up your data onto a backup cartridge or a PC, please refer to either the Option 11 Administration Guide or the Option 11 Customer Configuration Backup and Restore Guide. The EDD DR1 command may be used for Option 11, but it is not supported for Option 11C systems.	
EDD SP	Spool tape to far-end. This command applies to systems equipped with tape units. Spools tape to the far-end in order to even the tension on the tape. Also writes a test record after the end of existing data to check for any write problems. If errors occur during test, data should remain intact.	basic-1
PBX CF6 (ALLOWED)	Bit dumped with PBX data block.	basic-1
RES	Copy entire contents of backup device (floppy diskettes) to primary device (Winchester disk). Applicable to Meridian 1/Meridian SL-1 with hard disk storage. For Options 51C, 61C, 81 and 81C, this command copies the contents of the floppy disks on the active CMDU to both hard disks providing redundancy is in effect. If redundancy is not in effect, this command copies the floppy disk contents to the active CMDU. For Options 11 and 11C in X11 Release 22, the RES command may be entered to restore files to the primary device from the external backup device.	basic-19

LD 43

RIB	Restore backup files from the internal backup device into the primary device (Option 11C)	opt11c-22
SWP	Exchange (swap) main and secondary database files. A sysload is required for the swap to take effect. The SWP command may be used for both Option 11 and Option 11C systems.	basic-19
UPG	Upgrade This command dumps data to the Flash ROMs on both the CPU/Conf card and the software cartridge, and marks both ROMs as “UPG” copies. The UPG command may be used for Option 11, but it is not supported for Option 11C systems.	basic-1
UPS	Force the system to load the customer data from the Flash ROM on the CPU/Conf card Data is dumped to the Flash ROM on the software cartridge only, and marked as a “UPS” copy. The UPS command may be used for Option 11, but it is not supported for Option 11C systems.	basic-1
